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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

DATE COMPLETED:

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0609025B

Work Order Summary

CLIENT: Mr. Demian Wincele BILL TO: Mr. Dave McCready

ERM-West Aerojet

2525 Natomas Park Drive Bldg.2001 Dept. 0330 Suite 350 PO Box 13222

Sacramento, CA 95833 Sacramento, CA 95813

PHONE: 916-924-9378 **P.O.** #

09/15/2006

FAX: 916-924-5313 **PROJECT** # 20648.03 Aerojet PGOU

DATE RECEIVED: 09/01/2006 **CONTACT:** Nicole Danbacher

			RECEIPT
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.
01A	7D-SP13-10	Modified ASTM D-1945	0.2 psi
02A	FCS-SP03-10	Modified ASTM D-1945	1.0 "Hg
03A	FCS-SP06-10	Modified ASTM D-1945	7.0 "Hg
04A	FCS-SP06-20	Modified ASTM D-1945	6.5 "Hg
05A	FCS-SP06-20D	Modified ASTM D-1945	5.0 "Hg
06A	FCS-SP07-20	Modified ASTM D-1945	7.5 "Hg
07A	4D-SP23-10	Modified ASTM D-1945	7.5 "Hg
08A	11D-SP19-10	Modified ASTM D-1945	7.0 "Hg
09A	FCS-SP16-10	Modified ASTM D-1945	4.0 "Hg
10A	FCS-SP16-20	Modified ASTM D-1945	7.0 "Hg
10AA	FCS-SP16-20 Duplicate	Modified ASTM D-1945	7.0 "Hg
11A	34D-SP08-10	Modified ASTM D-1945	7.5 "Hg
12A	37D-SP08-10	Modified ASTM D-1945	1.0 "Hg
13A	37D-SP08-10D	Modified ASTM D-1945	0.0 "Hg
14A	10D-SP34-10	Modified ASTM D-1945	6.5 "Hg
15A	C32-SV02-20	Modified ASTM D-1945	2.5 "Hg
16A	C32-SV02-10	Modified ASTM D-1945	8.0 "Hg

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DATE RECEIVED: 09/01/2006

CONTACT: Nicole Danbacher 09/15/2006

RECEIPT FRACTION# **NAME TEST** VAC./PRES. 17A C32-090106 Modified ASTM D-1945 3.0 "Hg Lab Blank Modified ASTM D-1945 18A NA 19A LCS Modified ASTM D-1945 NA

CERTIFIED BY:

Sinda d. Fruman

09/15/06

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE Modified ASTM D-1945 ERM-West Workorder# 0609025B

Seventeen 1 Liter Summa Canister samples were received on September 01, 2006. The laboratory performed analysis via modified ASTM Method D-1945 for Helium in natural gas using GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limit.

Method modifications taken to run these samples include:

Requirement	ASTM D-1945	ATL Modifications
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 75-125%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD = 25%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).</td
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:

- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.



- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: 7D-SP13-10

Lab ID#: 0609025B-01A

	Rpt. Limit	Amount
Compound	(%)	(%)
Helium	0.020	2.3

Client Sample ID: FCS-SP03-10

Lab ID#: 0609025B-02A

No Detections Were Found.

Client Sample ID: FCS-SP06-10

Lab ID#: 0609025B-03A

No Detections Were Found.

Client Sample ID: FCS-SP06-20

Lab ID#: 0609025B-04A

No Detections Were Found.

Client Sample ID: FCS-SP06-20D

Lab ID#: 0609025B-05A

No Detections Were Found.

Client Sample ID: FCS-SP07-20

Lab ID#: 0609025B-06A

No Detections Were Found.

Client Sample ID: 4D-SP23-10

Lab ID#: 0609025B-07A

	Rpt. Limit	Amount
Compound	(%)	(%)
Helium	0.027	12

Client Sample ID: 11D-SP19-10

Lab ID#: 0609025B-08A

No Detections Were Found.



Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: FCS-SP16-10

Lab ID#: 0609025B-09A

No Detections Were Found.

Client Sample ID: FCS-SP16-20

Lab ID#: 0609025B-10A

No Detections Were Found.

Client Sample ID: FCS-SP16-20 Duplicate

Lab ID#: 0609025B-10AA

No Detections Were Found.

Client Sample ID: 34D-SP08-10

Lab ID#: 0609025B-11A

No Detections Were Found.

Client Sample ID: 37D-SP08-10

Lab ID#: 0609025B-12A

No Detections Were Found.

Client Sample ID: 37D-SP08-10D

Lab ID#: 0609025B-13A

No Detections Were Found.

Client Sample ID: 10D-SP34-10

Lab ID#: 0609025B-14A

No Detections Were Found.

Client Sample ID: C32-SV02-20

Lab ID#: 0609025B-15A

No Detections Were Found.

Client Sample ID: C32-SV02-10

Lab ID#: 0609025B-16A

No Detections Were Found.



Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: C32-090106

Lab ID#: 0609025B-17A

No Detections Were Found.

Client Sample ID: 7D-SP13-10 Lab ID#: 0609025B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090707b 1.99	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 10:20 AM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.020	2.3

Client Sample ID: FCS-SP03-10 Lab ID#: 0609025B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090708b 2.09	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 10:53 AM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.021	Not Detected

Client Sample ID: FCS-SP06-10 Lab ID#: 0609025B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090709b 2.64	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 11:18 AM			
		Rpt. Limit	Amount		
Compound		(%)	(%)		
Helium		0.026	Not Detected		

Client Sample ID: FCS-SP06-20 Lab ID#: 0609025B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9090710b	Date of Collection: 8/31/06	
Dil. Factor:	2.58	Date of Analysis: 9/7/06 11:47 AM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.026	Not Detected

Client Sample ID: FCS-SP06-20D Lab ID#: 0609025B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090711b 2.42	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 12:09 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.024	Not Detected

Client Sample ID: FCS-SP07-20 Lab ID#: 0609025B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090712b 2.69	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 12:32 PM			
		Rpt. Limit	Amount		
Compound		(%)	(%)		
Helium		0.027	Not Detected		

Client Sample ID: 4D-SP23-10 Lab ID#: 0609025B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090713b 2.69	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 12:57 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.027	12

Client Sample ID: 11D-SP19-10 Lab ID#: 0609025B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090714b 2.64	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 01:19 PM			
		Rpt. Limit	Amount		
Compound		(%)	(%)		
Helium		0.026	Not Detected		

Client Sample ID: FCS-SP16-10 Lab ID#: 0609025B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090715b 2.33	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 01:41 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.023	Not Detected

Client Sample ID: FCS-SP16-20 Lab ID#: 0609025B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	9090716b	Date of Collection: 8/31/06	
Dil. Factor:	2.64	Date of Analysis: 9/7/06 02:23 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.026	Not Detected



Client Sample ID: FCS-SP16-20 Duplicate

Lab ID#: 0609025B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090717b 2.64	Date of Collection: 8/31/06 Date of Analysis: 9/7/06 02:51 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.026	Not Detected

Client Sample ID: 34D-SP08-10 Lab ID#: 0609025B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090718b 2.69	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 03:14 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.027	Not Detected

Client Sample ID: 37D-SP08-10 Lab ID#: 0609025B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090719b 2.09	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 03:37 Pl	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.021	Not Detected

Client Sample ID: 37D-SP08-10D Lab ID#: 0609025B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090720b 2.02	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 03:59 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.020	Not Detected

Client Sample ID: 10D-SP34-10 Lab ID#: 0609025B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090721b 2.58	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 04:50 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.026	Not Detected

Client Sample ID: C32-SV02-20 Lab ID#: 0609025B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090722b 2.20	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 05:15 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.022	Not Detected

Client Sample ID: C32-SV02-10 Lab ID#: 0609025B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090723b 2.76	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 05:46 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.028	Not Detected

Client Sample ID: C32-090106 Lab ID#: 0609025B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090724b 2.24	Date of Collection: 9/1/06 Date of Analysis: 9/7/06 06:24 PM	
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.022	Not Detected

Client Sample ID: Lab Blank Lab ID#: 0609025B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: Dil. Factor:	9090704b 1.00		Collection: NA Analysis: 9/7/06 07:47 AM
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS Lab ID#: 0609025B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name: 9090726b Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 9/7/06 09:40 PM

Compound %Recovery

Helium 106

Container Type: NA - Not Applicable